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### (54) Title: VITRONECTIN RECEPTOR ANTAGONISTS

#### (57) Abstract

Compounds of formula (I) are disclosed, wherein: A is a fibrinogen antagonist template; W is a linking moiety of the form -(CHR\$)a-U-(CHR\$)b-V-; Q1, Q2, Q3 and Q4 are independently N or C-Ry, provided that no more than one of Q1, Q2, Q3 and Q4 is N; R' is H or C1-salkyl, C3-7cycloalkyl-C0-salkyl or Ar-Co-salkyl, Rs is H or Ci-salkyl, Het-Co-salkyl, C3-rcycloalkyl-Cosalkyl or Ar-Cosalkyl; Rt is Rs, -C(O)Rs or -C(O)ORs Ri is H, C1-salkyl, Het-Cosalkyl, C3-rcycloalkyl-Cosalkyl, Ar-Cosalkyl,

Het-Co-salkyl-U'-C1-salkyl, C3-rcycloalkyl-Co-salkyl-U'-C1-salkyl or Ar-Co-salkyl-U'-C1-salkyl; Ry is H, halo, -OR\$, -SR\$, -CN, -NR\$R\$, -NO2, -CF3, CF3S(O)-, -CO2R8, -COR8 or -CONR82, or C1-salkyl optionally substituted by halo, -OR8, -SR8, -CN, -NR8R", -NO2, -CF3, R'S(O)3-, -CO<sub>2</sub>Rs, -CORs or -CONRs<sub>2</sub>; U and V are absent or CO, CRs<sub>2</sub>, C(-CRs<sub>2</sub>), S(O)<sub>6</sub>, O, NRs, CRsORs, CRs(ORs)CRs<sub>2</sub>, CRs<sub>2</sub>CRs(ORs), C(O)CRs<sub>2</sub>, CRs<sub>2</sub>C(O), CONRs, NRsC(O), C(O)O, C(S)O, OC(S), C(S)NRs, NRsC(S), S(O)<sub>2</sub>NRs, NRsS(O)<sub>2</sub>N-N. NRSNRS, NRSCRS2, NRSCRS2, CRS2O, OCRS2, CRS-CRS, CSC, Ar or Het; a is 0, 1, 2 or 3; b is 0, 1 or 2; c is 0, 1 or 2; r is 0, 1 or 2; and u is 0 or 1; or pharmaceutically acceptable salts thereof, which are vitronectin receptor antagonists useful in the treatment of osteoporosis.

 <sup>(</sup>Referred to in PCT Gazette No. 41/1997, Section II)